REMARKS

Claim 1 has been amended. Claims 6 through 20 have been withdrawn from further consideration. Claims 1 through 20 remain in the application. A marked up copy of the amended claim is attached hereto as Appendix A.

Claims 1 through 5 were rejected under 35 U.S.C. § 102(b) as being anticipated by Asano et al. (U.S. Patent No. 5,078,207). Applicants respectfully traverse this rejection.

U.S. Patent No. 5,078,207 to Asano et al. discloses a heat exchanger and fin for the same. The conventional type offset fin (L-S) shown in FIG. 10 is formed by a cutting device including a plurality of cutters. Since the slit 7 and 8 is formed as the square hole 22 on the thin plate 21, the slit 7 and 8 is precisely formed between the first horizontal wall portion 5 and the second horizontal wall portion 6. Therefore, no remaining portion is existed on the first vertical wall portion 3 and the second vertical wall portion 4. Accordingly, the boundary-layer flow is broken by the slits 7 and 8, so that the local coefficient of heat transfer (Nu) can maintain high volume. The width S of the slit 7 and 8 is preferred to be smaller than the length L of the fin.

Asano et al. does not disclose a plurality of corrugated fins each having a base extending laterally and longitudinally in a strip and a connecting member interconnecting the base and another one of the corrugated fins with the connecting member having a longitudinal length greater than a lateral width thereof.

In contradistinction, claim 1, as amended, clarifies the invention claimed as a turbulator with offset louvers for a heat exchanger including a plurality of corrugated fins each having a base extending laterally and longitudinally in a strip and a connecting member interconnecting the base and another one of the corrugated fins. The connecting member has a longitudinal length greater than a lateral width thereof. The turbulator also includes a plurality of offset louvers spaced along the base and extending longitudinally and generally perpendicular to

the base in an alternating manner. The offset louvers are rolled in a direction parallel to a longitudinal axis of the strip.

A rejection grounded on anticipation under 35 U.S.C. § 102 is proper only where the subject matter claimed is identically disclosed or described in a reference. In other words, anticipation requires the presence of a single prior art reference which discloses each and every element of the claimed invention arranged as in the claim. In re Arkley, 455 F.2d 586, 172 U.S.P.Q. 524 (C.C.P.A. 1972); Kalman v. Kimberly-Clark Corp., 713 F.2d 760, 218 U.S.P.Q. 781 (Fed. Cir. 1983); Lindemann Maschinenfabrik GMBH v. American Hoist & Derrick Co., 730 F.2d 1452, 221 U.S.P.Q. 481 (Fed. Cir. 1984).

Asano et al. '207 does not disclose or anticipate the claimed invention of claim 1.

Asano et al. '207 merely discloses a heat exchanger and fin for the same having a slit formed between a first horizontal wall portion and a second horizontal wall portion. Asano et al. '207 lacks a plurality of corrugated fins each having a base extending laterally and longitudinally in a strip and a connecting member interconnecting the base and another one of the corrugated fins with the connecting member having a longitudinal length greater than a lateral width thereof. In Asano et al. '207, the lateral width P is greater than a longitudinal length S and not visa versa. Asano et al. '207 fails to disclose the combination of a turbulator with offset louvers including a plurality of corrugated fins each having a base extending laterally and longitudinally in a strip and a connecting member interconnecting the base and another one of the corrugated fins with the connecting member having a longitudinal length greater than a lateral width thereof as claimed by Applicants. Therefore, it is respectfully submitted that claim 1 and the claims dependant therefrom are allowable over the rejection under 35 U.S.C. § 102(b).

Based on the above, it is respectfully submitted that the claims are in a condition for allowance, which allowance is solicited.

By

Respectfully submitted,

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Date: October 30, 2002

Attorney Docket No.: 0667.00249 Disclosure No.: 199-1883

APPENDIX A

VERSION OF THE CLAIM WITH MARKINGS TO SHOW THE CHANGES

Please amend claim 1 as follows:

1. (AMENDED) A turbulator with offset louvers for a heat exchanger comprising:

a plurality of corrugated fins each having a base extending laterally and longitudinally in a strip and a connecting member interconnecting said base and another one of said corrugated fins, said connecting member having a longitudinal length greater than a lateral width thereof; and

a plurality of offset louvers spaced along said base and extending longitudinally and generally perpendicular to said base in an alternating manner, said offset louvers being rolled in a direction parallel to a longitudinal axis of said strip.